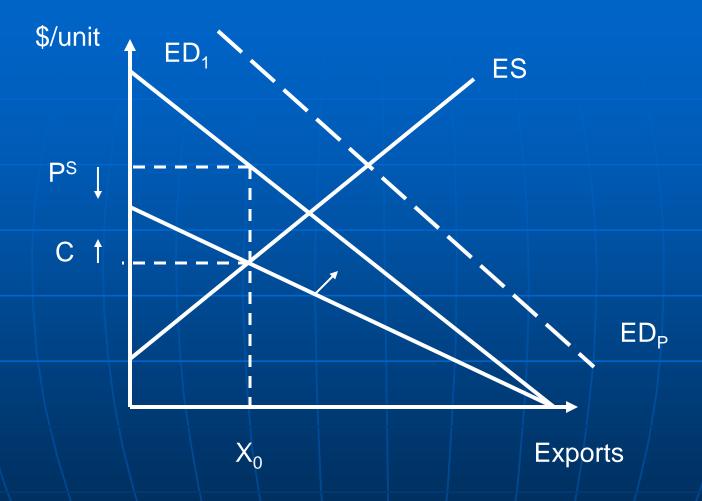
Prioritization of Sanitary Restrictions Facing US Exports of Bovine, Porcine, and Ovine for Determination of Surveillance Needs: Mid-term Report

Philip L. Paarlberg, Purdue University
Ann Hillberg Seitzinger, CEAH/VS/APHIS/USDA
John G. Lee, Purdue University
Mildred M. Haley, ERS/USDA

Objectives

- Facilitate aligning sanitary rules for livestock with the URA
- Database format of sanitary requirements facing US exports of bovine, porcine, and ovine allows quantification of the effects
- Treatment as increases in marketing margins to estimate the economic impacts of regulations
- Combined with the results of current and previous work to prioritize livestock disease surveillance efforts



Reduction of Export Regulation Costs for Bovine, Porcine, and Ovine

Export Classification by Destination

Bovine

- Purebred Dairy Breeding Males
- Purebred Dairy Breeding Females
- Purebred Breeding Males, except Dairy
- Purebred Breeding Females, except Dairy
- NESOI

Porcine

- Purebred Breeding
- NESOI, more than 50KG
- NESOI, less than 50KG
- Ovine

Tests China-Swine

Disease	Test		
Brucellosis	Tube agglutination		
Pleuropneumonia	Complement fixation		
Porcine Reproductive and Respiratory Syndrom (PRRS)	Immunofluorescence Assay		
Pseudorabies – Aujeszky's	ELISA		
Pseudorabies – Aujeszky's	Serum neutralization		
Swine dysentery	Fecal culture		
Transmissible Gastroenteritis (TGE)	Serum neutralization		
Transmissible Gastroenteritis (TGE)	ELISA		
Tuberculosis	Intradermal caudal fold		

Pseudorabies Test Costs

Source: Survey of select veterinary diagnostic laboratories

	Resident	Non- Resident	
Serum Neutralization	\$5.50	\$18.25	
ELISA	\$2.50	\$10.00	
Latex agglutination	\$2.00	\$13.00	
Virus isolation	\$32.00	\$32.00	

Treatments

Disease	Cuba	Egypt	Honduras
Endoparasites	Y	1	Y
Ectoparasites	Y		Y
Leptospirosis	Y		Y
Blackleg			Y
Clostridial Disease		Y	Y
Fascioliasis		Y	
Malignant Edema			Y
Brucellosis		Y	
Bovine Viral Diarrhea		Y	/ Y /
Infectious Bovine Rhinotracheitis	Y	Y /	Y /
Parainfluenza-3			Y/ /
Bovine Respiratory Synctial Virus			Y /

Other Costs

- Inspection
- Quarantine or isolation
- Health Certificate
- Export Embarkation Certificate
- Animal Registration
- Transportation Rules
- Bans
 - BSE
 - Bluetongue
 - PRRS

Economic Impacts

- Identify frequency of each regulation
 - Frequent: Brucellosis test (most)
 - Infrequent: Blackleg (only Honduras)
- Determine shift in excess demand facing the United States
 - Cost reduction for tests, treatments, quarantines, etc.
 - Lost potential trade resulting from bans
- Shock quarterly U.S. Agricultural sector model
 - Price
 - Quantity
 - Returns

Expected Policy Implications

- Identify regulations that are most costly to U.S. economic welfare
- In concert with other criteria prioritize regulations for international discussion
- Prioritize regulations for application of new surveillance protocols